## **AMENDMENTS TO THE CLAIMS**

Please AMEND claims 1-11 and 16 as shown below.

Please ADD claims 21-29 as shown below.

The following is a complete list of all claims in this application.

1. (Currently Amended) A flat panel display, comprising:

a system including an image processing part that decides for deciding a timing format of an image data and generates generating a control signal for the image data, an encoder that encodes for encoding the image data and the control signal output from the image processing part into a RSDS specification, and a power output part that outputs for outputting a constant-voltage;

a display module in electrical communication with the system, said display module comprising:

a control board including a power supply part that converts for converting the constant-voltage of the power output part into a predetermined voltage level;

a gray scale generating part that generates for generating a gray scale voltage using the predetermined voltage level of the voltage converting part;

a gate voltage generating part that generates for generating a gate on/off voltage using the predetermined voltage level of the voltage converting part;

a transmission line <u>that transmits</u> for transmitting the encoded image data and the control signal;

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a first connecting member having a data driver that converts the RSDS specification into

TTL data that generates for generating a column signal when the image data, the control signal,

and the gray scale voltage are applied;

a second connecting member having a scan driver that generates for generating a scan

signal when the control signal and the gate on/off voltage are applied; and

a flat panel that forms for forming a picture using the scan signal and the column signal.

2. (Currently Amended) The flat panel display of claim 1, wherein said data driver

comprises:

a first decoding means for decoding unit that decodes the data and the control signal into

the TTL data;

a first register means for unit that temporarily stores storing the TTL data decoded by the

first decoding unit means; and

a first signal processing means for generating unit that generates and outputs outputting a

column signal using the TTL data stored in the first register means unit, the control signal and

the gray scale voltage.

3. (Currently Amended) The flat panel display of claim 2, wherein the data and the

control signal are transmitted in a mixed signal within a single channel and after being decoded

by the first decoding unit means the TTL data is divided to be stored at a first register and a

second register of the first register unit means and is output to the first signal processing means

<u>unit</u>.

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4. (Currently Amended) The flat panel display of claim 2, wherein the data and the

control signal are separately transmitted through respective corresponding channels and after

being respectively decoded by a first decoder and a second decoder of the first decoding unit

means the TTL data is divided to be stored at a third register and a fourth register of the first

register <u>unit</u> means and output to the first signal processing <u>unit</u> means.

5. (Currently Amended) The flat panel display of claim 1, wherein said scan driver

comprises:

a second decoding unit that decodes means for decoding the control signal;

a second register unit that means for temporarily stores storing the control signal decoded

by the second decoding unit means; and

a second signal processing unit that generates means for generating a scan signal using

the control signal stored in the second register unit means and the gate on/off voltage.

6. (Currently Amended) A flat panel display, comprising:

a signal converting board including an analog/digital converter that converts for

converting an analog data having an analog format and forms for forming a picture and a control

signal for the analog data into a digital data and a digital control signal, an image processing part

that decides for deciding a timing format of the digital data and generates generating a control

signal for the digital data, and an encoder that encodes for encoding the digital data and the

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digital control signal output from the image processing part into encoded digital data and encoded digital control signal having a RSDS specification;

a display module in electrical communication with the signal converting board, said display module comprising:

a control board including a power supply part that converts for converting a constant-voltage into a predetermined voltage level;

a gray scale generating part that generates for generating a gray scale voltage using the predetermined voltage level of the voltage converting part;

a gate voltage generating part that generates for generating a gate on/off voltage using the predetermined voltage level of the voltage converting part;

a transmission line <u>that transmits</u> for transmitting the encoded digital data and the control signal;

a first connecting member having a data driver that generates for generating a column signal from the image data, the control signal, and the gray scale voltage, wherein the data driver comprises a decoder to decode the encoded digital data and the encoded digital control signal into TTL data;

a second connecting member having a scan driver that generates for generating a scan signal from the control signal and the gate on/off voltage; and

a flat panel <u>that displays</u> for <u>displaying</u> an image using the scan signal and the column signal.

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7. (Currently Amended) The flat panel display of claim 6, wherein said data driver decoder comprises:

a first decoding <u>unit that decodes</u> <del>means for decoding</del> the encoded digital data and the encoded digital control signal into the TTL data;

a first register <u>unit that means for</u> temporarily <u>stores</u> storing the TTL data decoded by the first decoding <u>unit means</u>; and

a first signal processing <u>unit that generates</u> means for generating and <u>outputs</u> outputting a column signal using the TTL data stored in the first register <u>unit</u> means, the control signal, and the gray scale voltage.

- 8. (Currently Amended) The flat panel display of claim 7, wherein the digital data and the digital control signal are transmitted in a mixed signal within a single channel and after being decoded by the first decoding means unit, the TTL data is divided to be stored at a first register and a second register of the first register means unit and output to the first signal processing means unit.
- 9. (Currently Amended) The flat panel display of claim 7, wherein the digital data and the digital control signal are separately transmitted through respective corresponding channels and after being respectively decoded by a first decoder and a second decoder of the first decoding means unit the TTL data is divided to be stored at a third register and a fourth register of the first register means unit and output to the first signal processing means unit.

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10. (Currently Amended) The flat panel display of claim 6, wherein said scan driver

comprises:

a second decoding unit means for that decodes decoding the encoded digital control

signal;

a second register <u>unit that</u> means for temporarily <u>stores</u> storing the encoded digital control

signal decoded by the second decoding unit means; and

a second signal processing unit that generates means for generating a scan signal using

the decoded control signal stored in the second register unit means and the gate on/off voltage.

11. (Currently Amended) A flat panel display, comprising:

a flat panel display having a plurality of data lines and a plurality of scan lines formed in

a matrix configuration;

a system including a image signal processing part, a power output part, and encoder part,

wherein the image signal processing part generates a data signal and a control signal and the

encoder part receives the data signal and the control signal and transmits RSDS signals; and

a control board including a gray scale generating part, a gate voltage generation part,

power supply part and connected to the flat panel display with a plurality of connecting

members, wherein the plurality of connecting members include a plurality of column driver

integrated circuits that receives for receiving RSDS signals from the encoder and decodes

decoding the RSDS signals into a TTL signal.

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12. (Previously Presented) The flat panel display of claim 11, wherein the flat panel

display is a liquid crystal display.

13. (Previously Presented) The flat panel display of claim 11, wherein the plurality of

connecting members apply the RSDS signals to the corresponding column driver integrated

circuits.

14. (Previously Presented) The flat panel display of claim 12, wherein the plurality of

column driver integrated circuits convert the RSDS signals into the TTL signal and generates a

driving signal.

15. (Previously Presented) The flat panel display of claim 11, wherein the TTL signal is

converted into a column signal and output to the plurality of data lines.

16. (Currently Amended) The flat panel display of claim 11, wherein the column driver

integrated circuit further comprises:

a first decoder connected to a data transmission channel that receives for receiving the

RSDS signal from the encoder and converting into a first TTL signal;

a first register in electrical communication with the first decoder that for temporally

storing stores the first TTL signal;

a second decoder connected to a control signal transmission channel that receives for

receiving the RSDS signal from the encoder and converting into a second TTL signal; and

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a second register in electrical communication with the second decoder for that temporally

stores storing the second TTL signal, controls controlling the first register, and outputs

outputting control signals to a shift register that outputs for outputting a column signal.

17. (Previously Presented) The flat panel display of claim 16, wherein the first register

selectively outputs signals to a data latch.

18. (Previously Presented) The flat panel display of claim 16, wherein the second

register selectively outputs control signals to at least one of the first register, the shift register, a

data latch a converter and a buffer.

19. (Previously Presented) The flat panel display of claim 6, wherein the encoded digital

data and the control signal are mixed with the encoder and transmitted through a single channel.

20. (Previously Presented) The flat panel display of claim 1, wherein encoder mixes the

image data with the control signal to transmit a mixed single through a signal channel.

21. (New) The flat panel display of claim 1, further comprising a cable transmitting the

encoded image data and the control signal of the RSDS specification from the system to the

control board.

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22. (New) The flat panel display of claim 1, wherein the transmission line transmits the

encoded image data and the control signal of the RSDS specification from the control board to

the first connecting member.

23. (New) The flat panel display of claim 1, wherein the encoded image data and the

control signal of the RSDS specification are directly transmitted from the system to the first

connecting member.

24. (New) The flat panel display of claim 6, further comprising a cable transmitting the

encoded image data and the control signal having the RSDS specification from the signal

converting board to the control board.

25. (New) The flat panel display of claim 6, wherein the transmission line transmits the

encoded image data and the control signal of the RSDS specification from the control board to

the first connecting member.

26. (New) The flat panel display of claim 6, wherein the encoded image data and the

control signal having the RSDS specification are directly transmitted from the signal converting

board to the first connecting member.

27. (New) The flat panel display of claim 11, further comprising a cable transmitting the

RSDS signals from the system to the control board.

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- 28. (New) The flat panel display of claim 11, wherein the transmission line transmits the RSDS signals from the control board to the connecting members.
- 29. (New) The flat panel display of claim 11, wherein the RSDS signals are directly transmitted from the system to the connecting members.